What is claimed is:

- 1 1. A TAB tape comprising:
- 2 a tape substrate of insulating material;
- 3 a first wiring pattern of conductive material, said first
- 4 wiring pattern being formed on one surface of said tape substrate;
- 5 a second wiring pattern of conductive material, said second
- 6 wiring pattern being formed on the other surface of said tape
- 7 substrate;
- 8 a conduction part that allows electrical conduction between
- 9 said first wiring pattern and said second wiring pattern; and
- 10 a stiffener that is adhered through adhesive to the other
- 11 surface of said tape substrate;
- wherein said second wiring pattern includes an insulating
- 13 material filled in a groove region where no wiring pattern is formed
- 14 around wiring patterns of said second wiring pattern.
- 1 2. The TAB tape according to claim 1, wherein:
- 2 said insulating material is photosensitive solder resist.
- 3. The TAB tape according to claim 2, wherein:
- 2 said photosensitive solder resist has a thickness of -10 to
- 3 +20 μ m comparing to that of wiring patterns of said second wiring
- 4 pattern.
- 4. The TAB tape according to claim 2, wherein:
- 2 said photosensitive solder resist is filled in said groove
- 3 region by screen printing.

- 5. A method of making a TAB tape comprising the steps of:
- 2 forming a first wiring pattern of conductive material on one
- 3 surface of a tape substrate of insulating material;
- 4 forming a second wiring pattern of conductive material on the
- 5 other surface of said tape substrate;
- 6 forming a conduction part that allows electrical conduction
- 7 between said first wiring pattern and said second wiring pattern;
- 8 and
- 9 adhering a stiffener through adhesive to the other surface
- 10 of said tape substrate;
- wherein said adhering step is conducted after filling an
- 12 insulating material in a groove region where no wiring pattern is
- 13 formed around wiring patterns of said second wiring pattern.
- 6. The method of making a TAB tape according to claim 5,
- 2 wherein:
- 3 said insulating material is photosensitive solder resist.
- 7. The method of making a TAB tape according to claim 6,
- 2 wherein:
- 3 said photosensitive solder resist has a thickness of -10 to
- 4 +20 $\mu \, \mathrm{m}$ comparing to that of wiring patterns of said second wiring
- 5 pattern.
- 8. The method of making a TAB tape according to claim 6,
- 2 wherein:
- 3 said photosensitive solder resist is filled in said groove

- 4 region by screen printing.
- 9. A semiconductor device comprising:
- a tape substrate of insulating material, said tape substrate
- 3 including an opening;
- 4 a first wiring pattern of conductive material, said first
- 5 wiring pattern being formed on one surface of said tape substrate;
- 6 a second wiring pattern of conductive material, said second
- 7 wiring pattern being formed on the other surface of said tape
- 8 substrate;
- 9 a conduction part that allows electrical conduction between
- 10 said first wiring pattern and said second wiring pattern; and
- 11 a stiffener that is adhered through adhesive to the other
- 12 surface of said tape substrate;
- a semiconductor chip that is mounted on said stiffener in the
- 14 opening of said tape substrate;
- 15 bonding wires that connect between said semiconductor chip
- 16 and said second wiring pattern; and
- 17 sealing resin that seals said semiconductor chip;
- 18 wherein said second wiring pattern includes an insulating
- 19 material filled in a groove region where no wiring pattern is formed
- 20 around wiring patterns of said second wiring pattern.
 - 1 10. The semiconductor device according to claim 9, wherein:
 - 2 said insulating material is photosensitive solder resist.
 - 1 11. The semiconductor device according to claim 10, wherein:
 - 2 said photosensitive solder resist has a thickness of -10 to

- 3 +20 $\mu\,\mathrm{m}$ comparing to that of wiring patterns of said second wiring
- 4 pattern.
- 1 12. The semiconductor device according to claim 10, wherein:
- said photosensitive solder resist is filled in said groove
- 3 region by screen printing.